

Title (en)  
CAP ASSEMBLY HAVING IMPROVED MANUFACTURING PROCESSABILITY AND CYLINDRICAL BATTERY COMPRISING SAME

Title (de)  
KAPPENANORDNUNG MIT VERBESSERTER HERSTELLUNGSVERARBEITBARKEIT UND ZYLINDRISCHE BATTERIE DAMIT

Title (fr)  
ENSEMBLE BOUCHON POSSÉDANT UNE APTITUDE AU TRAITEMENT DE FABRICATION AMÉLIORÉE ET BATTERIE CYLINDRIQUE COMPRENANT LEDIT ENSEMBLE

Publication  
**EP 2760062 A4 20141105 (EN)**

Application  
**EP 12862288 A 20121213**

Priority  
• KR 20110142198 A 20111226  
• KR 2012010817 W 20121213

Abstract (en)  
[origin: EP2760062A1] Disclosed herein is a cap assembly loaded on an open upper end of a cylindrical container of a battery configured to have a structure in which an electrode assembly (jelly roll) of a cathode/separator/anode structure is mounted in the cylindrical container, the cap assembly including a safety vent connected to a current interruptive device (CID) for safety, a protruding top cap connected to the safety vent along an outer circumference thereof, and a gasket mounted at an outer circumference of the top cap, wherein a cathode tab is attached to a cathode active material-uncoated portion of the cathode by welding and the gasket is provided with at least one groove depressed upward from an outer circumference of a lower end of the gasket for easy welding between the CID and the cathode tab at the time of manufacturing the battery.

IPC 8 full level  
**H01M 10/052** (2010.01); **H01M 12/08** (2006.01); **H01M 50/147** (2021.01); **H01M 50/184** (2021.01); **H01M 50/186** (2021.01); **H01M 50/193** (2021.01); **H01M 50/528** (2021.01)

CPC (source: CN EP KR US)  
**H01M 10/0422** (2013.01 - EP KR US); **H01M 10/052** (2013.01 - KR); **H01M 10/0587** (2013.01 - EP KR US); **H01M 12/08** (2013.01 - KR); **H01M 50/107** (2021.01 - KR); **H01M 50/147** (2021.01 - CN EP KR US); **H01M 50/184** (2021.01 - CN EP KR US); **H01M 50/186** (2021.01 - CN EP KR US); **H01M 50/193** (2021.01 - CN EP KR US); **H01M 50/30** (2021.01 - CN EP KR US); **H01M 50/528** (2021.01 - CN EP KR US); **H01M 50/578** (2021.01 - CN EP KR US); **H01M 50/581** (2021.01 - CN EP KR US); **H01M 10/052** (2013.01 - CN EP US); **Y02E 60/10** (2013.01 - EP KR); **Y02P 70/50** (2015.11 - EP KR)

Citation (search report)  
• [IAY] JP 2000260409 A 20000922 - MIKUNI KOGYO KK, et al  
• [YA] US 2011129708 A1 20110602 - DOO JAE-GYUN [KR]  
• [XAY] WO 2011040692 A1 20110407 - LG CHEMICAL LTD [KR], et al & EP 2472634 A1 20120704 - LG CHEMICAL LTD [KR]  
• [A] EP 1035611 A2 20000913 - SONY CORP [JP]  
• See also references of WO 2013100446A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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**EP 12862288 A 20121213**; CN 201280052326 A 20121213; JP 2014538731 A 20121213; KR 20110142198 A 20111226; KR 2012010817 W 20121213; US 201214353535 A 20121213